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TITLE : LUMINAIRE AND MANUFACTURE THEREOF

ABSTRACT : PROBLEM TO BE SOLVED: To provide an excellent photo-catalyst by using the base material including the titanium complex obtained by making titanium alkoxide react with alcohol amine and having a titanium oxide layer obtained by heating the titanium complex solution including a specified wt.% or less of alcohol in a surface thereof.

SOLUTION: As a titanium alkoxide, tetra isopropoxy-titanium is desirable. As an amino alcohol, triethanol amine, diethanol amine and the mixture thereof are especially desirable. Concentration of the titanium complex in the titanium complex solution is desirably set at 0.12-2 mole/liter while converting the titanium complex to the titanium dioxide. Concentration of the alcohol in the titanium complex solution is usually set at 10 wt.% or less, desirably at 5 wt.% or less, and more desirably at 3 wt.% or less. The obtained titanium complex solution is coated on a base material forming a luminaire, and heated so as to form a titanium oxide layer on a surface of the base material.

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